Maximite Quick Reference - v2.7a

Literals / Variables

Literals

Strings are contained in double quotes, e.g. "Maximite".

Numbers may be decimal or represented as:

&Hnn Hex Literal, e.g. &H3C (60)

&Bnn... Binary Literal, e.g. &B00100011 (35) n.nE+n Scientific, e.g. 1.6E+4 (16000)

System Variables

MM.HRES Horizontal Screen Resolution
MM.VRES Vertical Screen Resolution

MM.VER Firmware Version
MM.DRIVE\$ Current Default Drive
MM.FNAME\$ Current Default File
MM.ERRNO Last Error Code
MM.I2C Last I2C Result Code

User Variables

Variable names start with an alpha character or underscore and can contain any alpha or numeric character, period (.) and underscore (_); maximum length is 32 characters. String variable names are terminated with a \$ symbol. Number variable names are not terminated with a \$ symbol.

Operators

Arithmetic

^ * / Exponentiation, Multiplication, Division
MOD \ Modulus (remainder), Integer Division
+ + - Addition, String Concatenation, Subtraction

Logical

NOT Logical inverse
= <> Equality, Inequality
> < Greater Than, Less Than
<= or =< Less Than Equal To
>= or => Greater Than Equal To
AND OR Conjunction, Disjunction,
XOR Exclusive OR

Codes

Error

0 No error

No SD card found

2 SD card is write protected

3 Not enough space

All root directory entries are taken

5 Invalid filename

6 File does not exist

Directory does not exist

8 File is read only9 Cannot open file

10 Error reading from file

11 Error writing to file

12 Not a file

7

Not a directory

15 Directory not empty / Hardware error

Format String

% [flags] [width] [.prec] type

flags: - Left justify

0 Use 0 for the pad char, not space.+ A plus sign is shown for positive values.

space Space as sign, unless negative.

width: min. chars to output, less than this causes

padding, more than this causes expansion.

prec: no. of fraction digits for ${\bf e}$, or ${\bf f}$ type, or the max.

no of significant digits for **g** type. Must be preceded by a dot (.) if used.

type: **g** format for the best presentation

f format with decimal point and digits e Format in exponential format

G exponential output with uppercase E **F** exponential output with uppercase E.

If the format specification is not specified "%g" is assumed.

I2C

2

0 No error

1 Received NACK response

Command timed out

4 Received general call addr. (slave mode)

File Open Mode

INPUT Read Only

OUTPUT Write (Overwrite if exists)
APPEND Write (Append if exists)

Commands / Statements

Assignment

CLEAR DATA

DIM variable(elements...)

ERASE variable

LET variable =

READ variable[, variable]...

RESTORE

Editor

AUTO [start] [, increment]

DELETE line

DELETE -lastline

DELETE firstline [- lastline]

EDIT [line-number] (extended editing mode)

LIST [line]

LIST -lastline

LIST firstline [- lastline]

RENUMBER [first] [,incr] [,start]

External Pins

PIN(pin) = value SETPIN pin, cfg SETPIN pin, cfg, line

File System

CHDIR dir\$

CLOSE [#]nbr [,[#]nbr]
CLOSE CONSOLE

DRIVE drive\$

FILES [search_pattern\$] INPUT #nbr, list of variables

KILL file\$

LINE INPUT #nbr, string-variable\$

LOAD file\$
MERGE file\$
MKDIR dir\$

NAME old\$ AS new\$

OPEN fname\$ FOR mode AS [#]fnbr

OPEN comspec AS [#]fnbr

? or PRINT #nbr, expression [[,;]expression]...

RMDIR dir\$
SAVE [file\$]
SAVEBMP file\$

WRITE [#nbr,] expression [,expression]

Flow Control

CONTINUE

DO <statements> LOOP

DO WHILE expression <statements> LOOP DO <statements> LOOP UNTIL expression

ELSE

ELSEIF expression THEN

ENDIF

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END **EXIT EXIT FOR** FOR counter = start TO finish [STEP increment] **GOSUB** GOTO IF expression THEN **IRETURN** NEXT [counter-variable] [, counter-variable]... ON variable GOTO|GOSUB line[,line,line,...] PAUSE nbr RETURN WHILE expression... <statements> WEND I2C I2CEN speed, timeout [,int_line] 12CDIS, 12CSDIS I2CSEND addr, option, sendlen, data [,data....] I2CRCV addr,hold,rcvlen,rcvbuf [,sendlen,data [,data....]] I2CSEN addr, mask,option, send_int_line,rcv_int_line I2CSSEND sendlen,data [,data....] I2CSRCV rcvlen, rcvbuf, rcvd NUM2BYTE number, var1, var2, var3, var4 NUM2BYTE number, array(x) Kevboard INPUT ["prompt string";] LINE INPUT [prompt\$,], string-variable\$ Miscellaneous **COPYRIGHT** DATE\$ = "DD-MM-YY" or "DD/MM/YY" ERROR [error msg\$] **MEMORY** OPTION BASE 0 | 1 OPTION ERROR ABORT | CONTINUE **OPTION Fnn str\$ OPTION PROMPT str\$** OPTION USB ON | OFF OPTION VIDEO ON | OFF POKE hiword, loword, val. RANDOMIZE nbr **REM** string 'Comment RUN [line] [file\$] NEW SETTICK period, line TIME\$ = "HH:MM:SS"

TIMER = msecTROFF / TRON Screen CLS CIRCLE (x, y) ,r [,c [,F]] FONT #nbr [, scale] [, reverse] FONT LOAD file AS #nbr FONT UNLOAD #nbr LINE [(x1, y1)] - (x2, y2) [,c [,B[F]]] LOCATE x, y PIXEL(x.v) PRINT / ? expression [[,;]expression]... PRESET (x, y) PSET (x, y) Serial I/O CLOSE CONSOLE OPEN COMSPEC as CONSOLE XMODEM SEND file\$ XMODEM RECEIVE file\$ Sound/PWM SOUND frequency, duration

Functions

Date, Time, Timer

SOUND frequency, duration, dutycycle

DATE\$ TIME\$ TIMER

File System

CWD\$ EOF ([#]nbr) INPUT\$ (nbr, [#]fnbr)

I2C

BYTE2NUM(array(x)) BYTE2NUM(arg1, arg2,arg3, arg4)

I/O LOC ([#]nbr) LOF ([#]nbr) PIN (pin) SPI (rx, tx, clk [,data [,speed]]) Math / Number ABS (nbr)

ATN (nbr) CINT (nbr) COS (nbr) EXP (nbr) FIX (nbr) HEX\$ (nbr) INT (nbr) LOG (nbr) OCT\$ (nbr) RND (nbr) SGN (nbr) SIN (nbr) SQR (nbr) STR\$ (nbr) TAN (nbr) Memory PEEK (hiword,loword) Screen POS PIXEL(x,y) **String / Character** ASC (str\$) CHR\$ (nbr) FORMAT\$ (nbr [,format\$]) INSTR ([start,] search\$, pattern\$) LEFT\$ (str\$, nbr) LEN (str\$) LCASE\$ (str\$) MID\$ (str\$, start [,nbr]) RIGHT\$ (str\$, nbr) SPACE\$ (nbr) SPC (nbr) STRING\$(nbr, val|str\$) TAB(nbr) UCASE\$ (str\$)

Acknowledgements

VAL (str\$)

INKEY\$

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For the full Maximite User Manual and more details on the Maximite go to http://geoffg.net/maximite.html